

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P333091-927

Luminaire Tested: **S124RDIW-S1020D1560U927-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333091-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124RDIW-S1020D1560U927-4F0-1E-UDD-A
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1560 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8381.2 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

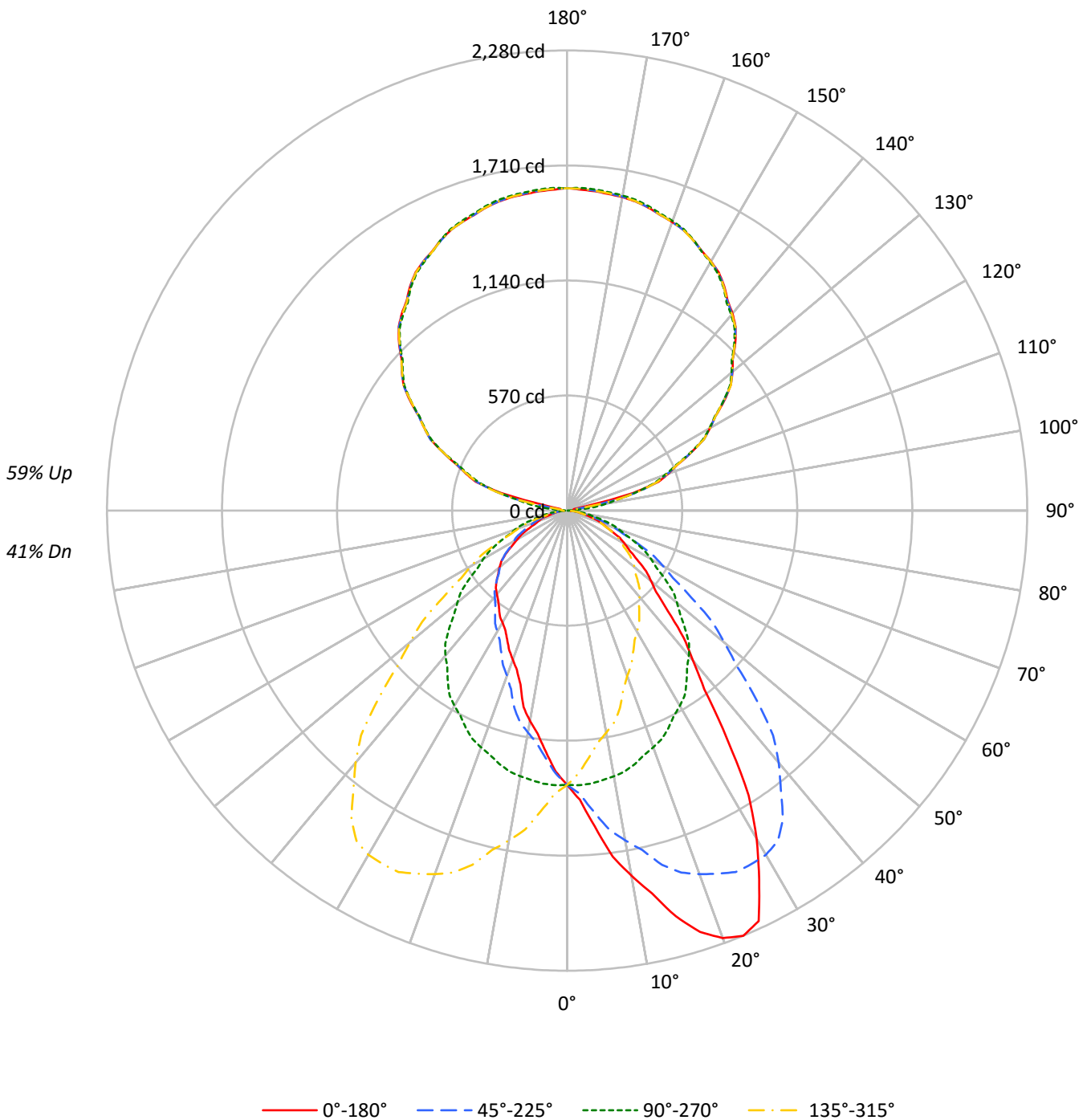
Input Watts (W): 76.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	105	105	105	105	96	96	96	96	78	78	78	62	62	62	48	48	48	41
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	35
2	88	81	75	70	80	74	69	65	61	57	54	49	47	45	38	37	35	30
3	80	71	64	59	73	65	59	54	54	50	46	44	41	38	34	32	30	26
4	74	63	56	50	67	58	51	46	48	43	40	39	36	33	31	28	26	23
5	68	56	49	43	62	52	45	40	43	38	34	35	32	29	28	25	23	20
6	62	51	43	37	57	47	40	35	39	34	30	32	28	25	25	23	21	18
7	58	46	38	33	53	42	35	31	35	30	26	29	25	22	23	20	18	16
8	53	42	34	29	49	38	32	27	32	27	24	27	23	20	21	19	16	14
9	50	38	31	26	45	35	29	24	30	25	21	25	21	18	20	17	15	13
10	46	35	28	23	42	32	26	22	27	22	19	23	19	16	18	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10973	10973	10973	10973
5°	12729	11006	9728	11006
10°	15057	10958	8682	10958
15°	17393	10857	7460	10857
20°	19365	10717	6747	10717
25°	19991	10580	6263	10580
30°	17500	10414	5972	10414
35°	13623	10168	5797	10168
40°	10215	9886	5702	9886
45°	8066	9435	5651	9435
50°	6810	8913	5488	8913
55°	5935	8341	5195	8341
60°	5339	7745	4598	7745
65°	4707	7104	3954	7104
70°	4239	6437	3567	6437
75°	3553	5705	3041	5705
80°	3003	4863	2850	4863
85°	2538	3798	2538	3798



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.7	1.6
10°-20°	397.3	4.7
20°-30°	621.4	7.4
30°-40°	690.7	8.2
40°-50°	612.9	7.3
50°-60°	477.6	5.7
60°-70°	312.7	3.7
70°-80°	153.8	1.8
80°-90°	42.6	0.5
90°-100°	54.6	0.7
100°-110°	348.3	4.2
110°-120°	666.3	8.0
120°-130°	845.9	10.1
130°-140°	905.0	10.8
140°-150°	846.3	10.1
150°-160°	682.5	8.1
160°-170°	440.2	5.3
170°-180°	151.7	1.8
0°-30°	1150.3	13.7
0°-40°	1841.1	22.0
0°-60°	2931.5	35.0
0°-90°	3440.4	41.0
90°-120°	1069.3	12.8
90°-150°	3666.4	43.7
90°-180°	4941.0	59.0
0°-180°	8381.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1359	1359	1359	1359	1359	
5°	1571	1358	1200	1358	1571	159
15°	2081	1299	893	1299	2081	592
25°	2244	1188	703	1188	2244	996
35°	1382	1032	588	1032	1382	866
45°	706	826	495	826	706	560
55°	422	593	369	593	422	384
65°	246	372	207	372	246	248
75°	114	183	98	183	114	125
85°	27	41	27	41	27	32
90°	36	4	36	4	36	17
95°	35	66	35	66	35	28
105°	340	360	340	360	340	297
115°	676	671	676	671	676	669
125°	951	944	951	944	951	847
135°	1179	1171	1179	1171	1179	908
145°	1357	1350	1357	1350	1357	848
155°	1479	1480	1479	1480	1479	682
165°	1554	1561	1554	1561	1554	439
175°	1588	1597	1588	1597	1588	151
180°	1597	1597	1597	1597	1597	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2
2.5°	1433.7	1437.7	1433.7	1433.3	1428.9	1427.6	1425.8	1420.1	1409.6	1403.5	1404.8
5°	1570.7	1584.3	1576.7	1575.6	1563.5	1551.5	1543.8	1526.3	1507.7	1495.1	1484.6
7.5°	1729.0	1736.9	1732.1	1724.4	1704.9	1693.8	1676.1	1653.0	1619.6	1594.0	1570.7
10°	1836.8	1843.3	1841.2	1826.9	1812.7	1783.7	1767.2	1735.0	1692.7	1659.4	1628.1
12.5°	1942.8	1949.8	1930.5	1931.2	1904.2	1881.4	1855.3	1814.7	1765.9	1722.8	1683.8
15°	2081.1	2072.3	2072.3	2061.3	2031.2	1999.5	1972.6	1929.9	1868.5	1817.0	1762.8
17.5°	2189.3	2192.3	2187.8	2161.9	2138.3	2105.5	2056.3	2006.4	1949.5	1880.4	1825.0
20°	2254.1	2254.1	2249.2	2231.7	2201.0	2165.9	2112.8	2058.6	1986.3	1916.8	1854.3
22.5°	2280.4	2282.1	2276.3	2261.8	2234.3	2200.0	2154.8	2099.8	2025.3	1946.9	1869.6
25°	2244.3	2254.6	2255.7	2251.9	2243.7	2222.9	2184.0	2127.6	2060.8	1975.9	1892.6
27.5°	2060.5	2073.6	2085.1	2104.0	2129.2	2142.4	2144.1	2115.4	2057.1	1975.5	1891.7
30°	1877.3	1888.2	1923.9	1970.4	2006.5	2039.4	2067.9	2075.5	2042.7	1969.3	1881.1
32.5°	1674.0	1688.9	1724.5	1774.6	1834.8	1890.5	1954.4	1987.0	1986.2	1942.1	1860.5
35°	1382.3	1393.2	1426.1	1478.6	1550.9	1633.6	1735.0	1813.8	1867.4	1863.6	1813.8
37.5°	1114.8	1127.1	1160.3	1204.0	1274.1	1376.4	1474.5	1583.1	1682.4	1738.1	1721.4
40°	969.3	969.9	1002.2	1047.1	1112.8	1202.1	1308.8	1429.3	1539.9	1630.3	1647.8
42.5°	854.5	854.6	876.0	924.4	971.8	1055.7	1157.7	1277.3	1406.8	1511.2	1557.6
45°	706.5	711.4	728.9	758.0	795.2	866.3	947.9	1059.1	1204.3	1328.0	1405.3
47.5°	598.3	605.5	616.6	640.3	669.9	717.4	784.9	884.8	1002.8	1139.0	1248.9
50°	542.2	543.3	557.5	570.6	596.4	634.1	693.3	776.6	884.9	1015.9	1138.0
52.5°	494.0	493.8	502.3	519.0	539.9	569.3	617.1	692.8	789.0	906.3	1032.4
55°	421.7	424.5	431.0	444.1	460.0	480.9	518.6	575.6	651.2	751.4	865.9
57.5°	366.7	368.1	373.3	378.8	393.4	408.5	436.9	476.4	540.2	622.3	728.9
60°	330.7	331.3	333.0	341.2	352.7	366.9	386.1	419.5	473.2	548.2	632.6
62.5°	295.7	296.7	299.2	305.2	314.1	324.0	344.0	370.9	415.3	479.4	555.4
65°	246.4	247.0	250.8	253.0	260.2	268.9	283.7	301.7	332.4	386.1	443.6
67.5°	205.9	205.9	206.1	209.1	214.0	219.8	228.7	243.1	266.3	299.2	349.9
70°	179.6	179.6	180.7	182.4	185.1	190.0	195.0	205.9	222.9	249.7	288.6
72.5°	155.1	155.5	156.6	156.9	158.4	162.4	166.0	173.1	185.7	205.9	237.3
75°	113.9	115.6	118.3	120.5	123.2	122.7	126.5	130.9	134.8	146.8	164.9
77.5°	84.8	83.9	84.2	86.1	86.4	87.0	89.7	93.1	95.9	101.6	108.1
80°	64.6	64.6	66.2	66.8	66.2	66.8	69.6	71.2	72.3	74.5	80.5
82.5°	48.9	49.7	49.2	49.7	50.1	50.6	52.9	53.2	54.3	55.2	57.8
85°	27.4	28.0	28.4	27.4	27.4	27.4	28.4	29.0	30.1	29.5	30.7
87.5°	16.8	16.2	16.6	16.5	16.8	16.2	16.3	16.9	15.7	15.8	15.4
90°	35.8	35.3	34.8	34.2	33.7	32.6	31.1	29.5	27.9	26.3	24.2
92.5°	33.0	32.9	32.8	32.6	32.6	31.7	30.1	28.5	26.9	25.3	23.2
95°	34.6	34.4	34.1	33.8	33.6	32.6	31.1	29.5	27.9	26.3	26.0
97.5°	33.4	33.2	33.0	32.6	32.4	32.2	32.0	31.8	31.7	31.5	61.2
100°	33.4	33.2	33.0	32.6	32.4	34.5	39.1	43.6	48.1	52.6	89.2
102.5°	34.4	34.4	34.3	34.2	34.2	58.5	107.2	155.9	204.5	253.3	258.0
105°	340.5	350.1	359.6	369.2	378.7	382.3	379.9	377.5	375.1	372.7	371.4
107.5°	474.5	473.5	472.5	471.5	470.5	469.4	468.3	467.1	465.9	464.7	462.9
110°	532.8	532.0	531.2	530.4	529.7	528.9	528.5	527.9	527.4	526.8	525.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	591.1	590.1	589.1	588.1	587.1	586.6	586.7	586.8	586.9	587.1	586.3
115°	676.2	676.2	676.2	676.2	676.2	675.9	675.3	674.9	674.3	673.8	674.1
117.5°	762.6	762.8	762.9	763.0	763.1	763.2	763.3	763.4	763.5	763.6	763.0
120°	817.1	817.7	818.2	818.7	819.3	819.3	818.7	818.2	817.7	817.1	817.4
122.5°	870.7	871.2	871.7	872.3	872.7	872.9	872.6	872.3	872.0	871.6	871.2
125°	950.9	950.7	950.4	950.1	949.9	949.4	948.6	947.8	947.0	946.2	946.7
127.5°	1021.4	1021.6	1021.8	1022.1	1022.2	1022.5	1022.6	1022.8	1022.9	1023.1	1021.8
130°	1069.2	1069.2	1069.2	1069.2	1069.2	1069.1	1068.8	1068.6	1068.3	1068.0	1067.2
132.5°	1113.2	1113.4	1113.6	1113.8	1114.0	1114.0	1113.7	1113.5	1113.2	1112.9	1111.9
135°	1179.1	1178.6	1178.1	1177.5	1177.0	1176.5	1175.9	1175.4	1174.9	1174.3	1173.3
137.5°	1235.5	1235.6	1235.8	1236.0	1236.1	1236.0	1235.3	1234.8	1234.1	1233.6	1232.4
140°	1274.7	1274.4	1274.1	1273.9	1273.6	1273.1	1272.3	1271.5	1270.7	1269.9	1269.4
142.5°	1307.2	1307.1	1307.1	1307.0	1306.9	1306.6	1306.1	1305.5	1304.9	1304.3	1304.0
145°	1357.1	1356.6	1356.1	1355.5	1355.0	1354.6	1354.3	1354.1	1353.8	1353.5	1353.5
147.5°	1398.4	1398.2	1397.9	1397.6	1397.4	1397.2	1396.9	1396.7	1396.5	1396.3	1396.5
150°	1425.2	1425.0	1424.7	1424.4	1424.2	1424.0	1424.0	1424.0	1424.0	1424.0	1424.3
152.5°	1448.1	1448.3	1448.4	1448.6	1448.7	1448.7	1448.2	1447.8	1447.4	1446.9	1447.4
155°	1479.0	1479.8	1480.6	1481.4	1482.2	1482.0	1481.0	1479.9	1478.8	1477.7	1478.6
157.5°	1504.8	1506.2	1507.5	1508.9	1510.3	1510.3	1508.9	1507.5	1506.2	1504.8	1505.7
160°	1521.9	1523.6	1525.2	1526.8	1528.4	1528.4	1526.8	1525.2	1523.6	1521.9	1522.3
162.5°	1535.3	1537.2	1539.0	1540.8	1542.5	1542.7	1541.1	1539.5	1537.9	1536.3	1536.6
165°	1554.3	1556.6	1559.0	1561.4	1563.8	1563.9	1561.8	1559.6	1557.5	1555.4	1555.4
167.5°	1568.4	1571.0	1573.7	1576.3	1579.0	1579.1	1576.8	1574.5	1572.1	1569.8	1569.9
170°	1576.9	1579.6	1582.2	1584.9	1587.5	1587.9	1585.7	1583.6	1581.4	1579.3	1579.1
172.5°	1581.7	1584.6	1587.5	1590.3	1593.2	1593.6	1591.4	1589.3	1587.1	1585.1	1584.8
175°	1587.7	1590.9	1594.0	1597.2	1600.4	1600.8	1598.5	1596.0	1593.6	1591.3	1591.0
177.5°	1591.5	1594.0	1596.6	1599.2	1601.7	1602.1	1600.4	1598.7	1597.0	1595.3	1594.9
180°	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2
2.5°	1400.4	1394.3	1391.2	1384.2	1375.9	1371.5	1367.5	1361.8	1354.4	1346.6	1340.8
5°	1471.5	1458.3	1441.9	1422.2	1404.7	1387.7	1372.9	1358.1	1341.2	1323.7	1306.2
7.5°	1544.4	1518.6	1490.6	1458.3	1427.0	1398.4	1372.1	1346.9	1318.3	1292.8	1269.6
10°	1595.3	1560.2	1521.3	1480.3	1439.2	1403.6	1368.6	1336.8	1301.7	1270.5	1244.2
12.5°	1636.5	1595.3	1548.5	1497.4	1448.0	1404.9	1364.6	1323.2	1283.3	1249.5	1214.4
15°	1704.8	1648.4	1585.4	1524.1	1460.0	1401.4	1347.2	1299.0	1253.5	1205.9	1172.5
17.5°	1751.8	1684.9	1608.3	1534.6	1458.9	1389.8	1327.2	1269.9	1217.4	1168.8	1129.0
20°	1779.8	1705.9	1621.0	1537.2	1452.3	1378.4	1311.1	1247.5	1193.3	1140.7	1099.6
22.5°	1795.6	1713.8	1621.0	1533.3	1445.3	1365.2	1291.3	1225.2	1166.2	1113.6	1068.1
25°	1800.6	1713.0	1618.3	1517.5	1421.1	1336.3	1259.6	1187.8	1122.1	1069.5	1021.4
27.5°	1793.7	1690.4	1593.4	1490.0	1390.6	1301.1	1220.6	1145.3	1079.4	1023.0	973.6
30°	1783.1	1672.5	1568.4	1461.1	1360.3	1274.4	1189.5	1117.2	1048.7	990.1	940.3
32.5°	1760.3	1650.6	1538.7	1428.7	1326.6	1238.0	1157.5	1084.7	1017.6	957.7	904.8
35°	1715.2	1604.0	1482.5	1369.7	1269.4	1177.4	1101.8	1031.7	967.7	903.6	847.7
37.5°	1655.7	1542.1	1421.3	1297.7	1197.4	1110.5	1041.2	975.3	912.8	854.3	792.4
40°	1599.7	1496.1	1371.3	1248.6	1145.7	1061.8	997.8	938.1	875.1	817.1	755.2
42.5°	1531.8	1443.6	1317.4	1194.3	1092.7	1011.9	952.2	893.8	836.5	780.3	715.7
45°	1418.4	1351.5	1233.3	1115.0	1012.6	932.6	877.9	826.4	776.0	722.3	661.6
47.5°	1288.5	1243.3	1141.1	1020.0	925.3	853.3	800.4	758.4	715.7	662.1	608.8
50°	1198.3	1169.2	1070.6	960.0	869.7	803.4	749.2	709.7	674.1	622.7	575.0
52.5°	1101.8	1086.4	1003.1	897.4	810.1	745.1	698.8	663.3	627.2	584.6	540.0
55°	955.1	963.3	892.6	801.2	719.1	664.3	622.1	592.6	561.9	525.8	491.2
57.5°	805.0	835.0	787.6	707.3	630.3	579.7	548.0	523.1	497.3	467.4	437.9
60°	715.2	740.4	713.6	642.9	575.6	528.5	498.9	479.7	454.0	426.6	404.2
62.5°	627.6	654.5	638.7	581.6	519.0	478.6	452.5	434.6	415.4	391.6	368.2
65°	517.5	535.0	527.4	488.0	443.6	409.1	385.0	371.9	354.3	336.8	316.0
67.5°	396.4	430.2	425.7	404.8	366.5	339.5	323.8	312.1	296.2	283.1	269.0
70°	325.8	357.0	356.5	339.5	318.7	293.5	282.6	272.7	258.5	245.9	234.4
72.5°	266.7	295.3	299.5	286.5	272.3	253.3	242.7	235.9	222.1	213.5	204.1
75°	186.7	207.6	213.0	213.0	206.4	196.6	187.3	182.9	173.1	165.4	159.9
77.5°	122.5	135.6	144.2	146.1	147.1	143.8	136.2	133.1	125.5	122.8	117.6
80°	86.5	95.3	105.1	108.4	111.1	110.1	106.8	104.6	97.5	94.7	92.5
82.5°	59.8	64.6	72.7	79.9	79.2	82.1	79.2	77.5	72.1	71.1	68.9
85°	31.2	31.8	32.9	37.8	40.6	41.6	42.1	41.0	39.5	39.5	35.6
87.5°	14.9	14.0	14.5	14.0	13.9	15.1	15.8	15.6	14.9	14.2	13.4
90°	22.0	19.9	17.8	15.3	12.4	9.4	6.5	3.6	6.5	9.4	12.4
92.5°	21.1	18.9	16.8	15.7	15.5	15.4	15.2	15.1	15.2	15.4	15.5
95°	25.7	25.5	25.2	29.6	38.7	47.7	56.6	65.7	56.6	47.7	38.7
97.5°	90.8	120.4	150.0	162.1	156.5	150.8	145.1	139.5	145.1	150.8	156.5
100°	125.8	162.5	199.1	215.0	210.2	205.5	200.7	195.9	200.7	205.5	210.2
102.5°	262.8	267.6	272.4	273.0	269.5	266.0	262.5	259.0	262.5	266.0	269.5
105°	370.1	368.8	367.4	366.0	364.4	362.7	361.2	359.6	361.2	362.7	364.4
107.5°	461.1	459.3	457.5	456.2	455.4	454.6	453.8	453.0	453.8	454.6	455.4
110°	523.6	522.0	520.5	519.3	518.5	517.7	516.9	516.1	516.9	517.7	518.5



TEST NUMBER: P333091-927

CATALOG NUMBER: S124RDIW-S1020D1560U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	585.6	584.8	584.1	583.0	581.5	580.1	578.7	577.3	578.7	580.1	581.5
115°	674.3	674.5	674.9	674.5	673.8	673.0	672.2	671.4	672.2	673.0	673.8
117.5°	762.5	761.8	761.3	760.5	759.4	758.4	757.2	756.2	757.2	758.4	759.4
120°	817.7	817.9	818.2	817.8	816.7	815.7	814.6	813.6	814.6	815.7	816.7
122.5°	870.8	870.5	870.1	869.7	868.9	868.3	867.7	867.0	867.7	868.3	868.9
125°	947.2	947.8	948.2	948.0	947.0	945.9	944.8	943.8	944.8	945.9	947.0
127.5°	1020.6	1019.5	1018.2	1017.5	1017.2	1016.9	1016.7	1016.4	1016.7	1016.9	1017.2
130°	1066.4	1065.6	1064.9	1064.3	1064.1	1063.7	1063.5	1063.3	1063.5	1063.7	1064.1
132.5°	1110.9	1109.9	1108.9	1108.2	1107.7	1107.2	1106.7	1106.2	1106.7	1107.2	1107.7
135°	1172.2	1171.2	1170.1	1169.7	1170.0	1170.2	1170.4	1170.8	1170.4	1170.2	1170.0
137.5°	1231.3	1230.1	1228.9	1228.3	1228.2	1228.0	1228.0	1227.9	1228.0	1228.0	1228.2
140°	1268.8	1268.3	1267.8	1267.3	1266.7	1266.2	1265.7	1265.1	1265.7	1266.2	1266.7
142.5°	1303.7	1303.4	1303.1	1302.4	1301.5	1300.5	1299.5	1298.5	1299.5	1300.5	1301.5
145°	1353.5	1353.5	1353.5	1353.1	1352.3	1351.5	1350.8	1350.0	1350.8	1351.5	1352.3
147.5°	1396.9	1397.1	1397.3	1396.8	1395.3	1393.8	1392.3	1390.8	1392.3	1393.8	1395.3
150°	1424.6	1424.8	1425.1	1424.7	1423.6	1422.5	1421.5	1420.5	1421.5	1422.5	1423.6
152.5°	1447.9	1448.3	1448.9	1448.7	1447.8	1447.0	1446.1	1445.3	1446.1	1447.0	1447.8
155°	1479.4	1480.2	1481.0	1481.2	1481.0	1480.7	1480.4	1480.2	1480.4	1480.7	1481.0
157.5°	1506.6	1507.4	1508.4	1508.9	1509.1	1509.3	1509.4	1509.6	1509.4	1509.3	1509.1
160°	1522.5	1522.7	1523.0	1523.6	1524.4	1525.2	1526.0	1526.8	1526.0	1525.2	1524.4
162.5°	1536.8	1537.1	1537.4	1538.0	1539.1	1540.0	1541.0	1542.1	1541.0	1540.0	1539.1
165°	1555.4	1555.4	1555.4	1556.1	1557.4	1558.8	1560.0	1561.4	1560.0	1558.8	1557.4
167.5°	1570.1	1570.3	1570.4	1571.1	1572.6	1573.9	1575.3	1576.7	1575.3	1573.9	1572.6
170°	1578.8	1578.5	1578.3	1578.9	1580.5	1582.1	1583.7	1585.3	1583.7	1582.1	1580.5
172.5°	1584.5	1584.3	1584.0	1584.7	1586.3	1587.9	1589.4	1591.0	1589.4	1587.9	1586.3
175°	1590.7	1590.5	1590.2	1590.9	1592.4	1594.0	1595.6	1597.2	1595.6	1594.0	1592.4
177.5°	1594.5	1594.0	1593.6	1594.2	1595.6	1597.1	1598.6	1600.1	1598.6	1597.1	1595.6
180°	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2



TEST NUMBER: P333091-927

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2
2.5°	1334.7	1330.3	1324.6	1318.0	1310.2	1303.1	1300.1	1302.7	1304.0	1300.5	1300.1
5°	1294.1	1280.4	1269.4	1253.0	1239.8	1228.9	1221.2	1218.0	1219.0	1210.3	1208.1
7.5°	1248.4	1232.2	1214.3	1194.7	1176.5	1160.5	1152.0	1147.4	1138.1	1134.2	1127.5
10°	1219.0	1197.1	1179.6	1156.6	1135.8	1116.7	1107.3	1099.6	1090.4	1086.0	1076.7
12.5°	1188.8	1163.4	1144.1	1120.2	1099.0	1075.9	1067.0	1052.8	1038.2	1029.0	1017.1
15°	1146.2	1115.6	1092.0	1063.5	1038.3	1012.0	988.5	962.2	952.4	931.5	919.5
17.5°	1096.4	1065.2	1036.1	997.9	959.0	926.4	901.3	876.1	861.0	847.7	841.6
20°	1063.5	1035.1	994.5	950.1	906.9	870.8	850.5	834.1	817.6	808.3	801.8
22.5°	1032.4	996.0	949.0	901.1	857.9	829.6	812.4	795.5	782.1	773.2	764.5
25°	980.2	932.6	882.8	828.1	798.4	773.8	755.2	741.5	733.3	721.8	717.4
27.5°	926.7	869.0	814.0	777.2	746.4	723.9	707.7	697.4	687.0	679.6	673.9
30°	885.5	827.0	777.7	742.6	711.4	692.8	679.6	667.6	659.3	653.3	649.0
32.5°	844.8	786.2	744.8	707.1	682.5	664.3	650.3	641.3	634.9	627.0	624.4
35°	785.8	733.8	697.7	663.8	638.6	622.1	611.2	601.8	596.4	594.2	592.6
37.5°	729.2	686.7	647.8	620.0	597.5	584.6	571.6	567.0	563.3	559.4	561.1
40°	693.3	653.3	618.9	589.2	571.2	557.0	549.3	543.8	540.5	540.5	540.5
42.5°	662.2	623.1	589.5	563.0	544.9	532.8	524.3	519.7	518.6	518.2	520.8
45°	613.9	577.7	543.8	521.9	506.6	494.5	489.6	485.8	485.8	488.0	488.5
47.5°	566.0	532.2	504.9	480.4	466.4	458.8	454.6	452.6	452.8	455.0	457.5
50°	536.7	503.3	476.4	454.6	441.4	434.3	430.5	429.4	430.5	430.5	434.3
52.5°	504.7	474.8	448.4	430.0	415.1	408.4	406.3	404.8	405.4	407.3	408.8
55°	457.8	431.0	405.8	388.2	377.3	373.0	368.0	368.5	367.5	368.5	368.5
57.5°	410.8	386.7	363.3	349.4	339.8	333.4	328.0	329.5	328.0	327.7	326.9
60°	380.6	354.3	335.7	323.1	312.1	306.7	301.7	302.9	301.2	300.1	297.9
62.5°	347.8	325.8	308.1	296.0	287.2	280.8	275.9	274.8	271.0	267.3	262.4
65°	300.1	282.0	266.2	254.7	246.4	241.5	237.7	234.4	226.2	217.4	213.0
67.5°	253.8	240.7	225.9	216.2	209.5	203.0	195.7	190.1	182.4	177.7	174.9
70°	223.9	211.4	198.8	189.5	182.4	176.3	168.1	164.3	158.8	156.6	153.9
72.5°	195.5	183.8	172.1	163.7	156.1	151.4	144.9	141.1	138.6	137.8	135.1
75°	152.3	142.9	134.2	126.5	120.5	117.2	114.5	111.7	110.6	105.7	103.0
77.5°	111.1	105.0	99.4	94.0	89.7	87.5	82.2	79.1	77.2	74.9	74.4
80°	86.5	82.1	76.7	73.4	67.3	65.2	63.0	62.4	61.9	61.3	60.8
82.5°	65.0	60.7	55.2	53.2	51.6	50.3	49.0	48.4	47.8	48.2	48.1
85°	32.9	30.7	30.7	30.1	29.5	29.0	28.4	28.4	28.0	28.4	28.0
87.5°	14.0	14.1	14.5	14.0	14.9	15.4	15.2	15.5	16.3	15.8	15.9
90°	15.3	17.8	19.9	22.0	24.2	26.3	27.9	29.5	31.1	32.6	33.7
92.5°	15.7	16.8	18.9	21.1	23.2	25.3	26.9	28.5	30.1	31.7	32.6
95°	29.6	25.2	25.5	25.7	26.0	26.3	27.9	29.5	31.1	32.6	33.6
97.5°	162.1	150.0	120.4	90.8	61.2	31.5	31.7	31.8	32.0	32.2	32.4
100°	215.0	199.1	162.5	125.8	89.2	52.6	48.1	43.6	39.1	34.5	32.4
102.5°	273.0	272.4	267.6	262.8	258.0	253.3	204.5	155.9	107.2	58.5	34.2
105°	366.0	367.4	368.8	370.1	371.4	372.7	375.1	377.5	379.9	382.3	378.7
107.5°	456.2	457.5	459.3	461.1	462.9	464.7	465.9	467.1	468.3	469.4	470.5
110°	519.3	520.5	522.0	523.6	525.2	526.8	527.4	527.9	528.5	528.9	529.7



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	583.0	584.1	584.8	585.6	586.3	587.1	586.9	586.8	586.7	586.6	587.1
115°	674.5	674.9	674.5	674.3	674.1	673.8	674.3	674.9	675.3	675.9	676.2
117.5°	760.5	761.3	761.8	762.5	763.0	763.6	763.5	763.4	763.3	763.2	763.1
120°	817.8	818.2	817.9	817.7	817.4	817.1	817.7	818.2	818.7	819.3	819.3
122.5°	869.7	870.1	870.5	870.8	871.2	871.6	872.0	872.3	872.6	872.9	872.7
125°	948.0	948.2	947.8	947.2	946.7	946.2	947.0	947.8	948.6	949.4	949.9
127.5°	1017.5	1018.2	1019.5	1020.6	1021.8	1023.1	1022.9	1022.8	1022.6	1022.5	1022.2
130°	1064.3	1064.9	1065.6	1066.4	1067.2	1068.0	1068.3	1068.6	1068.8	1069.1	1069.2
132.5°	1108.2	1108.9	1109.9	1110.9	1111.9	1112.9	1113.2	1113.5	1113.7	1114.0	1114.0
135°	1169.7	1170.1	1171.2	1172.2	1173.3	1174.3	1174.9	1175.4	1175.9	1176.5	1177.0
137.5°	1228.3	1228.9	1230.1	1231.3	1232.4	1233.6	1234.1	1234.8	1235.3	1236.0	1236.1
140°	1267.3	1267.8	1268.3	1268.8	1269.4	1269.9	1270.7	1271.5	1272.3	1273.1	1273.6
142.5°	1302.4	1303.1	1303.4	1303.7	1304.0	1304.3	1304.9	1305.5	1306.1	1306.6	1306.9
145°	1353.1	1353.5	1353.5	1353.5	1353.5	1353.5	1353.8	1354.1	1354.3	1354.6	1355.0
147.5°	1396.8	1397.3	1397.1	1396.9	1396.5	1396.3	1396.5	1396.7	1396.9	1397.2	1397.4
150°	1424.7	1425.1	1424.8	1424.6	1424.3	1424.0	1424.0	1424.0	1424.0	1424.0	1424.2
152.5°	1448.7	1448.9	1448.3	1447.9	1447.4	1446.9	1447.4	1447.8	1448.2	1448.7	1448.7
155°	1481.2	1481.0	1480.2	1479.4	1478.6	1477.7	1478.8	1479.9	1481.0	1482.0	1482.2
157.5°	1508.9	1508.4	1507.4	1506.6	1505.7	1504.8	1506.2	1507.5	1508.9	1510.3	1510.3
160°	1523.6	1523.0	1522.7	1522.5	1522.3	1521.9	1523.6	1525.2	1526.8	1528.4	1528.4
162.5°	1538.0	1537.4	1537.1	1536.8	1536.6	1536.3	1537.9	1539.5	1541.1	1542.7	1542.5
165°	1556.1	1555.4	1555.4	1555.4	1555.4	1555.4	1557.5	1559.6	1561.8	1563.9	1563.8
167.5°	1571.1	1570.4	1570.3	1570.1	1569.9	1569.8	1572.1	1574.5	1576.8	1579.1	1579.0
170°	1578.9	1578.3	1578.5	1578.8	1579.1	1579.3	1581.4	1583.6	1585.7	1587.9	1587.5
172.5°	1584.7	1584.0	1584.3	1584.5	1584.8	1585.1	1587.1	1589.3	1591.4	1593.6	1593.2
175°	1590.9	1590.2	1590.5	1590.7	1591.0	1591.3	1593.6	1596.0	1598.5	1600.8	1600.4
177.5°	1594.2	1593.6	1594.0	1594.5	1594.9	1595.3	1597.0	1598.7	1600.4	1602.1	1601.7
180°	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2



TEST NUMBER: P333091-927

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2
2.5°	1297.4	1298.3	1295.3	1294.4	1295.3	1298.3	1297.4	1300.1	1300.5	1304.0	1302.7
5°	1203.7	1202.6	1199.8	1200.4	1199.8	1202.6	1203.7	1208.1	1210.3	1219.0	1218.0
7.5°	1123.6	1119.3	1120.5	1116.1	1120.5	1119.3	1123.6	1127.5	1134.2	1138.1	1147.4
10°	1074.4	1068.4	1063.5	1059.1	1063.5	1068.4	1074.4	1076.7	1086.0	1090.4	1099.6
12.5°	1007.4	1002.3	995.6	997.0	995.6	1002.3	1007.4	1017.1	1029.0	1038.2	1052.8
15°	912.4	904.1	891.0	892.6	891.0	904.1	912.4	919.5	931.5	952.4	962.2
17.5°	831.9	831.9	825.9	827.4	825.9	831.9	831.9	841.6	847.7	861.0	876.1
20°	790.3	786.4	787.0	785.3	787.0	786.4	790.3	801.8	808.3	817.6	834.1
22.5°	761.4	756.6	752.8	749.4	752.8	756.6	761.4	764.5	773.2	782.1	795.5
25°	712.5	709.2	704.3	703.1	704.3	709.2	712.5	717.4	721.8	733.3	741.5
27.5°	669.6	668.9	666.9	664.4	666.9	668.9	669.6	673.9	679.6	687.0	697.4
30°	644.6	643.5	642.4	640.7	642.4	643.5	644.6	649.0	653.3	659.3	667.6
32.5°	622.3	621.5	620.4	620.6	620.4	621.5	622.3	624.4	627.0	634.9	641.3
35°	590.3	589.8	588.7	588.2	588.7	589.8	590.3	592.6	594.2	596.4	601.8
37.5°	560.5	562.0	561.3	561.2	561.3	562.0	560.5	561.1	559.4	563.3	567.0
40°	540.0	540.5	541.6	541.1	541.6	540.5	540.0	540.5	540.5	540.5	543.8
42.5°	522.9	523.0	524.5	522.7	524.5	523.0	522.9	520.8	518.2	518.6	519.7
45°	492.3	495.6	495.0	495.0	495.0	495.6	492.3	488.5	488.0	485.8	485.8
47.5°	458.9	461.8	462.6	462.4	462.6	461.8	458.9	457.5	455.0	452.8	452.6
50°	437.0	435.9	437.6	437.0	437.6	435.9	437.0	434.3	430.5	430.5	429.4
52.5°	410.3	410.5	410.4	409.9	410.4	410.5	410.3	408.8	407.3	405.4	404.8
55°	369.1	369.6	368.5	369.1	368.5	369.6	369.1	368.5	368.5	367.5	368.5
57.5°	324.4	321.8	322.9	321.5	322.9	321.8	324.4	326.9	327.7	328.0	329.5
60°	292.5	288.0	286.9	284.8	286.9	288.0	292.5	297.9	300.1	301.2	302.9
62.5°	256.5	253.4	249.7	251.4	249.7	253.4	256.5	262.4	267.3	271.0	274.8
65°	208.7	206.4	204.8	207.0	204.8	206.4	208.7	213.0	217.4	226.2	234.4
67.5°	172.7	171.5	171.5	170.4	171.5	171.5	172.7	174.9	177.7	182.4	190.1
70°	153.9	152.3	152.3	151.1	152.3	152.3	153.9	153.9	156.6	158.8	164.3
72.5°	134.6	132.9	133.4	132.8	133.4	132.9	134.6	135.1	137.8	138.6	141.1
75°	99.7	97.0	97.0	97.5	97.0	97.0	99.7	103.0	105.7	110.6	111.7
77.5°	74.4	73.8	74.6	73.6	74.6	73.8	74.4	74.4	74.9	77.2	79.1
80°	60.8	60.2	59.7	61.3	59.7	60.2	60.8	60.8	61.3	61.9	62.4
82.5°	47.2	47.1	47.0	49.0	47.0	47.1	47.2	48.1	48.2	47.8	48.4
85°	28.4	27.4	28.4	27.4	28.4	27.4	28.4	28.0	28.4	28.0	28.4
87.5°	17.0	16.6	16.2	16.8	16.2	16.6	17.0	15.9	15.8	16.3	15.5
90°	34.2	34.8	35.3	35.8	35.3	34.8	34.2	33.7	32.6	31.1	29.5
92.5°	32.6	32.8	32.9	33.0	32.9	32.8	32.6	32.6	31.7	30.1	28.5
95°	33.8	34.1	34.4	34.6	34.4	34.1	33.8	33.6	32.6	31.1	29.5
97.5°	32.6	33.0	33.2	33.4	33.2	33.0	32.6	32.4	32.2	32.0	31.8
100°	32.6	33.0	33.2	33.4	33.2	33.0	32.6	32.4	34.5	39.1	43.6
102.5°	34.2	34.3	34.4	34.4	34.4	34.3	34.2	34.2	58.5	107.2	155.9
105°	369.2	359.6	350.1	340.5	350.1	359.6	369.2	378.7	382.3	379.9	377.5
107.5°	471.5	472.5	473.5	474.5	473.5	472.5	471.5	470.5	469.4	468.3	467.1
110°	530.4	531.2	532.0	532.8	532.0	531.2	530.4	529.7	528.9	528.5	527.9



TEST NUMBER: P333091-927

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	588.1	589.1	590.1	591.1	590.1	589.1	588.1	587.1	586.6	586.7	586.8
115°	676.2	676.2	676.2	676.2	676.2	676.2	676.2	676.2	675.9	675.3	674.9
117.5°	763.0	762.9	762.8	762.6	762.8	762.9	763.0	763.1	763.2	763.3	763.4
120°	818.7	818.2	817.7	817.1	817.7	818.2	818.7	819.3	819.3	818.7	818.2
122.5°	872.3	871.7	871.2	870.7	871.2	871.7	872.3	872.7	872.9	872.6	872.3
125°	950.1	950.4	950.7	950.9	950.7	950.4	950.1	949.9	949.4	948.6	947.8
127.5°	1022.1	1021.8	1021.6	1021.4	1021.6	1021.8	1022.1	1022.2	1022.5	1022.6	1022.8
130°	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2	1069.1	1068.8	1068.6
132.5°	1113.8	1113.6	1113.4	1113.2	1113.4	1113.6	1113.8	1114.0	1114.0	1113.7	1113.5
135°	1177.5	1178.1	1178.6	1179.1	1178.6	1178.1	1177.5	1177.0	1176.5	1175.9	1175.4
137.5°	1236.0	1235.8	1235.6	1235.5	1235.6	1235.8	1236.0	1236.1	1236.0	1235.3	1234.8
140°	1273.9	1274.1	1274.4	1274.7	1274.4	1274.1	1273.9	1273.6	1273.1	1272.3	1271.5
142.5°	1307.0	1307.1	1307.1	1307.2	1307.1	1307.1	1307.0	1306.9	1306.6	1306.1	1305.5
145°	1355.5	1356.1	1356.6	1357.1	1356.6	1356.1	1355.5	1355.0	1354.6	1354.3	1354.1
147.5°	1397.6	1397.9	1398.2	1398.4	1398.2	1397.9	1397.6	1397.4	1397.2	1396.9	1396.7
150°	1424.4	1424.7	1425.0	1425.2	1425.0	1424.7	1424.4	1424.2	1424.0	1424.0	1424.0
152.5°	1448.6	1448.4	1448.3	1448.1	1448.3	1448.4	1448.6	1448.7	1448.7	1448.2	1447.8
155°	1481.4	1480.6	1479.8	1479.0	1479.8	1480.6	1481.4	1482.2	1482.0	1481.0	1479.9
157.5°	1508.9	1507.5	1506.2	1504.8	1506.2	1507.5	1508.9	1510.3	1510.3	1508.9	1507.5
160°	1526.8	1525.2	1523.6	1521.9	1523.6	1525.2	1526.8	1528.4	1528.4	1526.8	1525.2
162.5°	1540.8	1539.0	1537.2	1535.3	1537.2	1539.0	1540.8	1542.5	1542.7	1541.1	1539.5
165°	1561.4	1559.0	1556.6	1554.3	1556.6	1559.0	1561.4	1563.8	1563.9	1561.8	1559.6
167.5°	1576.3	1573.7	1571.0	1568.4	1571.0	1573.7	1576.3	1579.0	1579.1	1576.8	1574.5
170°	1584.9	1582.2	1579.6	1576.9	1579.6	1582.2	1584.9	1587.5	1587.9	1585.7	1583.6
172.5°	1590.3	1587.5	1584.6	1581.7	1584.6	1587.5	1590.3	1593.2	1593.6	1591.4	1589.3
175°	1597.2	1594.0	1590.9	1587.7	1590.9	1594.0	1597.2	1600.4	1600.8	1598.5	1596.0
177.5°	1599.2	1596.6	1594.0	1591.5	1594.0	1596.6	1599.2	1601.7	1602.1	1600.4	1598.7
180°	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2
2.5°	1300.1	1303.1	1310.2	1318.0	1324.6	1330.3	1334.7	1340.8	1346.6	1354.4	1361.8
5°	1221.2	1228.9	1239.8	1253.0	1269.4	1280.4	1294.1	1306.2	1323.7	1341.2	1358.1
7.5°	1152.0	1160.5	1176.5	1194.7	1214.3	1232.2	1248.4	1269.6	1292.8	1318.3	1346.9
10°	1107.3	1116.7	1135.8	1156.6	1179.6	1197.1	1219.0	1244.2	1270.5	1301.7	1336.8
12.5°	1067.0	1075.9	1099.0	1120.2	1144.1	1163.4	1188.8	1214.4	1249.5	1283.3	1323.2
15°	988.5	1012.0	1038.3	1063.5	1092.0	1115.6	1146.2	1172.5	1205.9	1253.5	1299.0
17.5°	901.3	926.4	959.0	997.9	1036.1	1065.2	1096.4	1129.0	1168.8	1217.4	1269.9
20°	850.5	870.8	906.9	950.1	994.5	1035.1	1063.5	1099.6	1140.7	1193.3	1247.5
22.5°	812.4	829.6	857.9	901.1	949.0	996.0	1032.4	1068.1	1113.6	1166.2	1225.2
25°	755.2	773.8	798.4	828.1	882.8	932.6	980.2	1021.4	1069.5	1122.1	1187.8
27.5°	707.7	723.9	746.4	777.2	814.0	869.0	926.7	973.6	1023.0	1079.4	1145.3
30°	679.6	692.8	711.4	742.6	777.7	827.0	885.5	940.3	990.1	1048.7	1117.2
32.5°	650.3	664.3	682.5	707.1	744.8	786.2	844.8	904.8	957.7	1017.6	1084.7
35°	611.2	622.1	638.6	663.8	697.7	733.8	785.8	847.7	903.6	967.7	1031.7
37.5°	571.6	584.6	597.5	620.0	647.8	686.7	729.2	792.4	854.3	912.8	975.3
40°	549.3	557.0	571.2	589.2	618.9	653.3	693.3	755.2	817.1	875.1	938.1
42.5°	524.3	532.8	544.9	563.0	589.5	623.1	662.2	715.7	780.3	836.5	893.8
45°	489.6	494.5	506.6	521.9	543.8	577.7	613.9	661.6	722.3	776.0	826.4
47.5°	454.6	458.8	466.4	480.4	504.9	532.2	566.0	608.8	662.1	715.7	758.4
50°	430.5	434.3	441.4	454.6	476.4	503.3	536.7	575.0	622.7	674.1	709.7
52.5°	406.3	408.4	415.1	430.0	448.4	474.8	504.7	540.0	584.6	627.2	663.3
55°	368.0	373.0	377.3	388.2	405.8	431.0	457.8	491.2	525.8	561.9	592.6
57.5°	328.0	333.4	339.8	349.4	363.3	386.7	410.8	437.9	467.4	497.3	523.1
60°	301.7	306.7	312.1	323.1	335.7	354.3	380.6	404.2	426.6	454.0	479.7
62.5°	275.9	280.8	287.2	296.0	308.1	325.8	347.8	368.2	391.6	415.4	434.6
65°	237.7	241.5	246.4	254.7	266.2	282.0	300.1	316.0	336.8	354.3	371.9
67.5°	195.7	203.0	209.5	216.2	225.9	240.7	253.8	269.0	283.1	296.2	312.1
70°	168.1	176.3	182.4	189.5	198.8	211.4	223.9	234.4	245.9	258.5	272.7
72.5°	144.9	151.4	156.1	163.7	172.1	183.8	195.5	204.1	213.5	222.1	235.9
75°	114.5	117.2	120.5	126.5	134.2	142.9	152.3	159.9	165.4	173.1	182.9
77.5°	82.2	87.5	89.7	94.0	99.4	105.0	111.1	117.6	122.8	125.5	133.1
80°	63.0	65.2	67.3	73.4	76.7	82.1	86.5	92.5	94.7	97.5	104.6
82.5°	49.0	50.3	51.6	53.2	55.2	60.7	65.0	68.9	71.1	72.1	77.5
85°	28.4	29.0	29.5	30.1	30.7	30.7	32.9	35.6	39.5	39.5	41.0
87.5°	15.2	15.4	14.9	14.0	14.5	14.1	14.0	13.4	14.2	14.9	15.6
90°	27.9	26.3	24.2	22.0	19.9	17.8	15.3	12.4	9.4	6.5	3.6
92.5°	26.9	25.3	23.2	21.1	18.9	16.8	15.7	15.5	15.4	15.2	15.1
95°	27.9	26.3	26.0	25.7	25.5	25.2	29.6	38.7	47.7	56.6	65.7
97.5°	31.7	31.5	61.2	90.8	120.4	150.0	162.1	156.5	150.8	145.1	139.5
100°	48.1	52.6	89.2	125.8	162.5	199.1	215.0	210.2	205.5	200.7	195.9
102.5°	204.5	253.3	258.0	262.8	267.6	272.4	273.0	269.5	266.0	262.5	259.0
105°	375.1	372.7	371.4	370.1	368.8	367.4	366.0	364.4	362.7	361.2	359.6
107.5°	465.9	464.7	462.9	461.1	459.3	457.5	456.2	455.4	454.6	453.8	453.0
110°	527.4	526.8	525.2	523.6	522.0	520.5	519.3	518.5	517.7	516.9	516.1



TEST NUMBER: P333091-927

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	586.9	587.1	586.3	585.6	584.8	584.1	583.0	581.5	580.1	578.7	577.3
115°	674.3	673.8	674.1	674.3	674.5	674.9	674.5	673.8	673.0	672.2	671.4
117.5°	763.5	763.6	763.0	762.5	761.8	761.3	760.5	759.4	758.4	757.2	756.2
120°	817.7	817.1	817.4	817.7	817.9	818.2	817.8	816.7	815.7	814.6	813.6
122.5°	872.0	871.6	871.2	870.8	870.5	870.1	869.7	868.9	868.3	867.7	867.0
125°	947.0	946.2	946.7	947.2	947.8	948.2	948.0	947.0	945.9	944.8	943.8
127.5°	1022.9	1023.1	1021.8	1020.6	1019.5	1018.2	1017.5	1017.2	1016.9	1016.7	1016.4
130°	1068.3	1068.0	1067.2	1066.4	1065.6	1064.9	1064.3	1064.1	1063.7	1063.5	1063.3
132.5°	1113.2	1112.9	1111.9	1110.9	1109.9	1108.9	1108.2	1107.7	1107.2	1106.7	1106.2
135°	1174.9	1174.3	1173.3	1172.2	1171.2	1170.1	1169.7	1170.0	1170.2	1170.4	1170.8
137.5°	1234.1	1233.6	1232.4	1231.3	1230.1	1228.9	1228.3	1228.2	1228.0	1228.0	1227.9
140°	1270.7	1269.9	1269.4	1268.8	1268.3	1267.8	1267.3	1266.7	1266.2	1265.7	1265.1
142.5°	1304.9	1304.3	1304.0	1303.7	1303.4	1303.1	1302.4	1301.5	1300.5	1299.5	1298.5
145°	1353.8	1353.5	1353.5	1353.5	1353.5	1353.5	1353.1	1352.3	1351.5	1350.8	1350.0
147.5°	1396.5	1396.3	1396.5	1396.9	1397.1	1397.3	1396.8	1395.3	1393.8	1392.3	1390.8
150°	1424.0	1424.0	1424.3	1424.6	1424.8	1425.1	1424.7	1423.6	1422.5	1421.5	1420.5
152.5°	1447.4	1446.9	1447.4	1447.9	1448.3	1448.9	1448.7	1447.8	1447.0	1446.1	1445.3
155°	1478.8	1477.7	1478.6	1479.4	1480.2	1481.0	1481.2	1481.0	1480.7	1480.4	1480.2
157.5°	1506.2	1504.8	1505.7	1506.6	1507.4	1508.4	1508.9	1509.1	1509.3	1509.4	1509.6
160°	1523.6	1521.9	1522.3	1522.5	1522.7	1523.0	1523.6	1524.4	1525.2	1526.0	1526.8
162.5°	1537.9	1536.3	1536.6	1536.8	1537.1	1537.4	1538.0	1539.1	1540.0	1541.0	1542.1
165°	1557.5	1555.4	1555.4	1555.4	1555.4	1555.4	1556.1	1557.4	1558.8	1560.0	1561.4
167.5°	1572.1	1569.8	1569.9	1570.1	1570.3	1570.4	1571.1	1572.6	1573.9	1575.3	1576.7
170°	1581.4	1579.3	1579.1	1578.8	1578.5	1578.3	1578.9	1580.5	1582.1	1583.7	1585.3
172.5°	1587.1	1585.1	1584.8	1584.5	1584.3	1584.0	1584.7	1586.3	1587.9	1589.4	1591.0
175°	1593.6	1591.3	1591.0	1590.7	1590.5	1590.2	1590.9	1592.4	1594.0	1595.6	1597.2
177.5°	1597.0	1595.3	1594.9	1594.5	1594.0	1593.6	1594.2	1595.6	1597.1	1598.6	1600.1
180°	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2



TEST NUMBER: P333091-927

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2
2.5°	1367.5	1371.5	1375.9	1384.2	1391.2	1394.3	1400.4	1404.8	1403.5	1409.6	1420.1
5°	1372.9	1387.7	1404.7	1422.2	1441.9	1458.3	1471.5	1484.6	1495.1	1507.7	1526.3
7.5°	1372.1	1398.4	1427.0	1458.3	1490.6	1518.6	1544.4	1570.7	1594.0	1619.6	1653.0
10°	1368.6	1403.6	1439.2	1480.3	1521.3	1560.2	1595.3	1628.1	1659.4	1692.7	1735.0
12.5°	1364.6	1404.9	1448.0	1497.4	1548.5	1595.3	1636.5	1683.8	1722.8	1765.9	1814.7
15°	1347.2	1401.4	1460.0	1524.1	1585.4	1648.4	1704.8	1762.8	1817.0	1868.5	1929.9
17.5°	1327.2	1389.8	1458.9	1534.6	1608.3	1684.9	1751.8	1825.0	1880.4	1949.5	2006.4
20°	1311.1	1378.4	1452.3	1537.2	1621.0	1705.9	1779.8	1854.3	1916.8	1986.3	2058.6
22.5°	1291.3	1365.2	1445.3	1533.3	1621.0	1713.8	1795.6	1869.6	1946.9	2025.3	2099.8
25°	1259.6	1336.3	1421.1	1517.5	1618.3	1713.0	1800.6	1892.6	1975.9	2060.8	2127.6
27.5°	1220.6	1301.1	1390.6	1490.0	1593.4	1690.4	1793.7	1891.7	1975.5	2057.1	2115.4
30°	1189.5	1274.4	1360.3	1461.1	1568.4	1672.5	1783.1	1881.1	1969.3	2042.7	2075.5
32.5°	1157.5	1238.0	1326.6	1428.7	1538.7	1650.6	1760.3	1860.5	1942.1	1986.2	1987.0
35°	1101.8	1177.4	1269.4	1369.7	1482.5	1604.0	1715.2	1813.8	1863.6	1867.4	1813.8
37.5°	1041.2	1110.5	1197.4	1297.7	1421.3	1542.1	1655.7	1721.4	1738.1	1682.4	1583.1
40°	997.8	1061.8	1145.7	1248.6	1371.3	1496.1	1599.7	1647.8	1630.3	1539.9	1429.3
42.5°	952.2	1011.9	1092.7	1194.3	1317.4	1443.6	1531.8	1557.6	1511.2	1406.8	1277.3
45°	877.9	932.6	1012.6	1115.0	1233.3	1351.5	1418.4	1405.3	1328.0	1204.3	1059.1
47.5°	800.4	853.3	925.3	1020.0	1141.1	1243.3	1288.5	1248.9	1139.0	1002.8	884.8
50°	749.2	803.4	869.7	960.0	1070.6	1169.2	1198.3	1138.0	1015.9	884.9	776.6
52.5°	698.8	745.1	810.1	897.4	1003.1	1086.4	1101.8	1032.4	906.3	789.0	692.8
55°	622.1	664.3	719.1	801.2	892.6	963.3	955.1	865.9	751.4	651.2	575.6
57.5°	548.0	579.7	630.3	707.3	787.6	835.0	805.0	728.9	622.3	540.2	476.4
60°	498.9	528.5	575.6	642.9	713.6	740.4	715.2	632.6	548.2	473.2	419.5
62.5°	452.5	478.6	519.0	581.6	638.7	654.5	627.6	555.4	479.4	415.3	370.9
65°	385.0	409.1	443.6	488.0	527.4	535.0	517.5	443.6	386.1	332.4	301.7
67.5°	323.8	339.5	366.5	404.8	425.7	430.2	396.4	349.9	299.2	266.3	243.1
70°	282.6	293.5	318.7	339.5	356.5	357.0	325.8	288.6	249.7	222.9	205.9
72.5°	242.7	253.3	272.3	286.5	299.5	295.3	266.7	237.3	205.9	185.7	173.1
75°	187.3	196.6	206.4	213.0	213.0	207.6	186.7	164.9	146.8	134.8	130.9
77.5°	136.2	143.8	147.1	146.1	144.2	135.6	122.5	108.1	101.6	95.9	93.1
80°	106.8	110.1	111.1	108.4	105.1	95.3	86.5	80.5	74.5	72.3	71.2
82.5°	79.2	82.1	79.2	79.9	72.7	64.6	59.8	57.8	55.2	54.3	53.2
85°	42.1	41.6	40.6	37.8	32.9	31.8	31.2	30.7	29.5	30.1	29.0
87.5°	15.8	15.1	13.9	14.0	14.5	14.0	14.9	15.4	15.8	15.7	16.9
90°	6.5	9.4	12.4	15.3	17.8	19.9	22.0	24.2	26.3	27.9	29.5
92.5°	15.2	15.4	15.5	15.7	16.8	18.9	21.1	23.2	25.3	26.9	28.5
95°	56.6	47.7	38.7	29.6	25.2	25.5	25.7	26.0	26.3	27.9	29.5
97.5°	145.1	150.8	156.5	162.1	150.0	120.4	90.8	61.2	31.5	31.7	31.8
100°	200.7	205.5	210.2	215.0	199.1	162.5	125.8	89.2	52.6	48.1	43.6
102.5°	262.5	266.0	269.5	273.0	272.4	267.6	262.8	258.0	253.3	204.5	155.9
105°	361.2	362.7	364.4	366.0	367.4	368.8	370.1	371.4	372.7	375.1	377.5
107.5°	453.8	454.6	455.4	456.2	457.5	459.3	461.1	462.9	464.7	465.9	467.1
110°	516.9	517.7	518.5	519.3	520.5	522.0	523.6	525.2	526.8	527.4	527.9



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	578.7	580.1	581.5	583.0	584.1	584.8	585.6	586.3	587.1	586.9	586.8
115°	672.2	673.0	673.8	674.5	674.9	674.5	674.3	674.1	673.8	674.3	674.9
117.5°	757.2	758.4	759.4	760.5	761.3	761.8	762.5	763.0	763.6	763.5	763.4
120°	814.6	815.7	816.7	817.8	818.2	817.9	817.7	817.4	817.1	817.7	818.2
122.5°	867.7	868.3	868.9	869.7	870.1	870.5	870.8	871.2	871.6	872.0	872.3
125°	944.8	945.9	947.0	948.0	948.2	947.8	947.2	946.7	946.2	947.0	947.8
127.5°	1016.7	1016.9	1017.2	1017.5	1018.2	1019.5	1020.6	1021.8	1023.1	1022.9	1022.8
130°	1063.5	1063.7	1064.1	1064.3	1064.9	1065.6	1066.4	1067.2	1068.0	1068.3	1068.6
132.5°	1106.7	1107.2	1107.7	1108.2	1108.9	1109.9	1110.9	1111.9	1112.9	1113.2	1113.5
135°	1170.4	1170.2	1170.0	1169.7	1170.1	1171.2	1172.2	1173.3	1174.3	1174.9	1175.4
137.5°	1228.0	1228.0	1228.2	1228.3	1228.9	1230.1	1231.3	1232.4	1233.6	1234.1	1234.8
140°	1265.7	1266.2	1266.7	1267.3	1267.8	1268.3	1268.8	1269.4	1269.9	1270.7	1271.5
142.5°	1299.5	1300.5	1301.5	1302.4	1303.1	1303.4	1303.7	1304.0	1304.3	1304.9	1305.5
145°	1350.8	1351.5	1352.3	1353.1	1353.5	1353.5	1353.5	1353.5	1353.5	1353.8	1354.1
147.5°	1392.3	1393.8	1395.3	1396.8	1397.3	1397.1	1396.9	1396.5	1396.3	1396.5	1396.7
150°	1421.5	1422.5	1423.6	1424.7	1425.1	1424.8	1424.6	1424.3	1424.0	1424.0	1424.0
152.5°	1446.1	1447.0	1447.8	1448.7	1448.9	1448.3	1447.9	1447.4	1446.9	1447.4	1447.8
155°	1480.4	1480.7	1481.0	1481.2	1481.0	1480.2	1479.4	1478.6	1477.7	1478.8	1479.9
157.5°	1509.4	1509.3	1509.1	1508.9	1508.4	1507.4	1506.6	1505.7	1504.8	1506.2	1507.5
160°	1526.0	1525.2	1524.4	1523.6	1523.0	1522.7	1522.5	1522.3	1521.9	1523.6	1525.2
162.5°	1541.0	1540.0	1539.1	1538.0	1537.4	1537.1	1536.8	1536.6	1536.3	1537.9	1539.5
165°	1560.0	1558.8	1557.4	1556.1	1555.4	1555.4	1555.4	1555.4	1555.4	1557.5	1559.6
167.5°	1575.3	1573.9	1572.6	1571.1	1570.4	1570.3	1570.1	1569.9	1569.8	1572.1	1574.5
170°	1583.7	1582.1	1580.5	1578.9	1578.3	1578.5	1578.8	1579.1	1579.3	1581.4	1583.6
172.5°	1589.4	1587.9	1586.3	1584.7	1584.0	1584.3	1584.5	1584.8	1585.1	1587.1	1589.3
175°	1595.6	1594.0	1592.4	1590.9	1590.2	1590.5	1590.7	1591.0	1591.3	1593.6	1596.0
177.5°	1598.6	1597.1	1595.6	1594.2	1593.6	1594.0	1594.5	1594.9	1595.3	1597.0	1598.7
180°	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2
2.5°	1425.8	1427.6	1428.9	1433.3	1433.7	1437.7	1433.7
5°	1543.8	1551.5	1563.5	1575.6	1576.7	1584.3	1570.7
7.5°	1676.1	1693.8	1704.9	1724.4	1732.1	1736.9	1729.0
10°	1767.2	1783.7	1812.7	1826.9	1841.2	1843.3	1836.8
12.5°	1855.3	1881.4	1904.2	1931.2	1930.5	1949.8	1942.8
15°	1972.6	1999.5	2031.2	2061.3	2072.3	2072.3	2081.1
17.5°	2056.3	2105.5	2138.3	2161.9	2187.8	2192.3	2189.3
20°	2112.8	2165.9	2201.0	2231.7	2249.2	2254.1	2254.1
22.5°	2154.8	2200.0	2234.3	2261.8	2276.3	2282.1	2280.4
25°	2184.0	2222.9	2243.7	2251.9	2255.7	2254.6	2244.3
27.5°	2144.1	2142.4	2129.2	2104.0	2085.1	2073.6	2060.5
30°	2067.9	2039.4	2006.5	1970.4	1923.9	1888.2	1877.3
32.5°	1954.4	1890.5	1834.8	1774.6	1724.5	1688.9	1674.0
35°	1735.0	1633.6	1550.9	1478.6	1426.1	1393.2	1382.3
37.5°	1474.5	1376.4	1274.1	1204.0	1160.3	1127.1	1114.8
40°	1308.8	1202.1	1112.8	1047.1	1002.2	969.9	969.3
42.5°	1157.7	1055.7	971.8	924.4	876.0	854.6	854.5
45°	947.9	866.3	795.2	758.0	728.9	711.4	706.5
47.5°	784.9	717.4	669.9	640.3	616.6	605.5	598.3
50°	693.3	634.1	596.4	570.6	557.5	543.3	542.2
52.5°	617.1	569.3	539.9	519.0	502.3	493.8	494.0
55°	518.6	480.9	460.0	444.1	431.0	424.5	421.7
57.5°	436.9	408.5	393.4	378.8	373.3	368.1	366.7
60°	386.1	366.9	352.7	341.2	333.0	331.3	330.7
62.5°	344.0	324.0	314.1	305.2	299.2	296.7	295.7
65°	283.7	268.9	260.2	253.0	250.8	247.0	246.4
67.5°	228.7	219.8	214.0	209.1	206.1	205.9	205.9
70°	195.0	190.0	185.1	182.4	180.7	179.6	179.6
72.5°	166.0	162.4	158.4	156.9	156.6	155.5	155.1
75°	126.5	122.7	123.2	120.5	118.3	115.6	113.9
77.5°	89.7	87.0	86.4	86.1	84.2	83.9	84.8
80°	69.6	66.8	66.2	66.8	66.2	64.6	64.6
82.5°	52.9	50.6	50.1	49.7	49.2	49.7	48.9
85°	28.4	27.4	27.4	27.4	28.4	28.0	27.4
87.5°	16.3	16.2	16.8	16.5	16.6	16.2	16.8
90°	31.1	32.6	33.7	34.2	34.8	35.3	35.8
92.5°	30.1	31.7	32.6	32.6	32.8	32.9	33.0
95°	31.1	32.6	33.6	33.8	34.1	34.4	34.6
97.5°	32.0	32.2	32.4	32.6	33.0	33.2	33.4
100°	39.1	34.5	32.4	32.6	33.0	33.2	33.4
102.5°	107.2	58.5	34.2	34.2	34.3	34.4	34.4
105°	379.9	382.3	378.7	369.2	359.6	350.1	340.5
107.5°	468.3	469.4	470.5	471.5	472.5	473.5	474.5
110°	528.5	528.9	529.7	530.4	531.2	532.0	532.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	586.7	586.6	587.1	588.1	589.1	590.1	591.1
115°	675.3	675.9	676.2	676.2	676.2	676.2	676.2
117.5°	763.3	763.2	763.1	763.0	762.9	762.8	762.6
120°	818.7	819.3	819.3	818.7	818.2	817.7	817.1
122.5°	872.6	872.9	872.7	872.3	871.7	871.2	870.7
125°	948.6	949.4	949.9	950.1	950.4	950.7	950.9
127.5°	1022.6	1022.5	1022.2	1022.1	1021.8	1021.6	1021.4
130°	1068.8	1069.1	1069.2	1069.2	1069.2	1069.2	1069.2
132.5°	1113.7	1114.0	1114.0	1113.8	1113.6	1113.4	1113.2
135°	1175.9	1176.5	1177.0	1177.5	1178.1	1178.6	1179.1
137.5°	1235.3	1236.0	1236.1	1236.0	1235.8	1235.6	1235.5
140°	1272.3	1273.1	1273.6	1273.9	1274.1	1274.4	1274.7
142.5°	1306.1	1306.6	1306.9	1307.0	1307.1	1307.1	1307.2
145°	1354.3	1354.6	1355.0	1355.5	1356.1	1356.6	1357.1
147.5°	1396.9	1397.2	1397.4	1397.6	1397.9	1398.2	1398.4
150°	1424.0	1424.0	1424.2	1424.4	1424.7	1425.0	1425.2
152.5°	1448.2	1448.7	1448.7	1448.6	1448.4	1448.3	1448.1
155°	1481.0	1482.0	1482.2	1481.4	1480.6	1479.8	1479.0
157.5°	1508.9	1510.3	1510.3	1508.9	1507.5	1506.2	1504.8
160°	1526.8	1528.4	1528.4	1526.8	1525.2	1523.6	1521.9
162.5°	1541.1	1542.7	1542.5	1540.8	1539.0	1537.2	1535.3
165°	1561.8	1563.9	1563.8	1561.4	1559.0	1556.6	1554.3
167.5°	1576.8	1579.1	1579.0	1576.3	1573.7	1571.0	1568.4
170°	1585.7	1587.9	1587.5	1584.9	1582.2	1579.6	1576.9
172.5°	1591.4	1593.6	1593.2	1590.3	1587.5	1584.6	1581.7
175°	1598.5	1600.8	1600.4	1597.2	1594.0	1590.9	1587.7
177.5°	1600.4	1602.1	1601.7	1599.2	1596.6	1594.0	1591.5
180°	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2

(END OF REPORT)